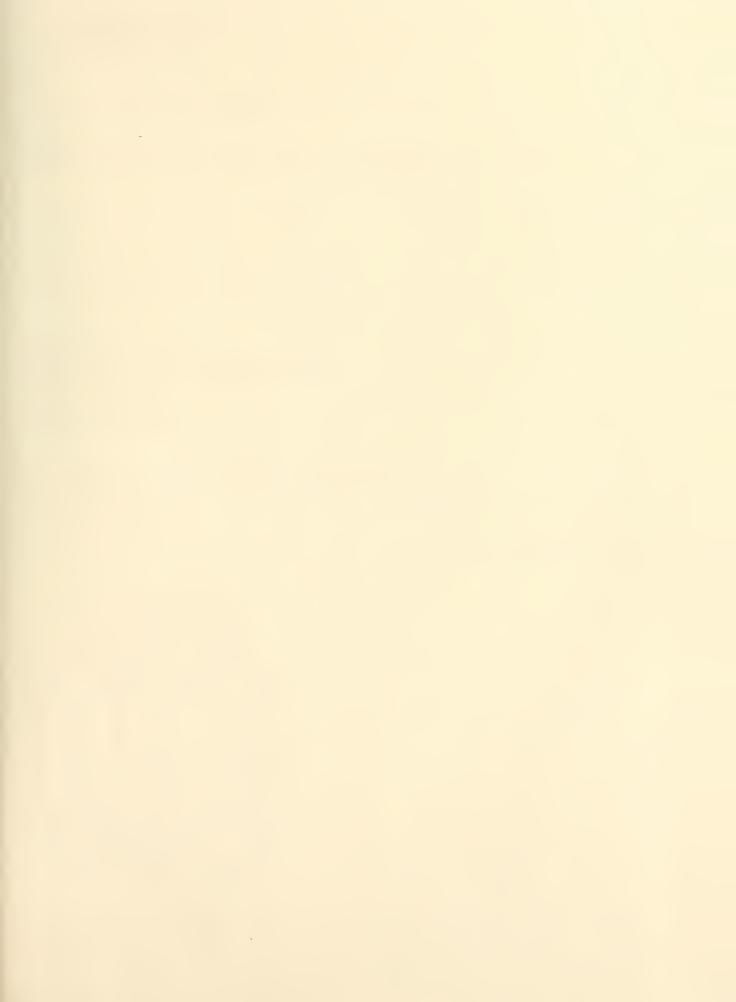
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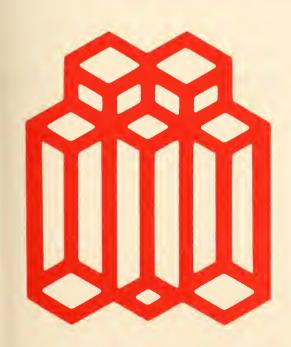
# **1987**Census of Mineral Industries

MIC87-A-2

GEOGRAPHIC AREA SERIES

## Middle Atlantic States

New Jersey, New York, Pennsylvania



#### **ACKNOWLEDGMENTS**

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If you have any questions concerning the statistics in this report, call (301) 763-5938.

## 1987

## Census of Mineral Industries

MIC87-A-2

**GEOGRAPHIC AREA SERIES** 

## Middle Atlantic States

New Jersey, New York, Pennsylvania

Issued November 1990



U.S. Department of Commerce Robert A. Mosbacher, Secretary Thomas J. Murrin, Deputy Secretary Michael R. Darby, Under Secretary for Economic Affairs

BUREAU OF THE CENSUS Barbara Everitt Bryant, Director



## BUREAU OF THE CENSUS Barbara Everitt Bryant, Director C. L. Kincannon, Deputy Director

Charles A. Waite, Associate Director for Economic Programs Roger H. Bugenhagen, Assistant Director for Economic and Agriculture Censuses

> Thomas L. Mesenbourg, Chief, Economic Census Staff

INDUSTRY DIVISION
Gaylord E. Worden, Chief

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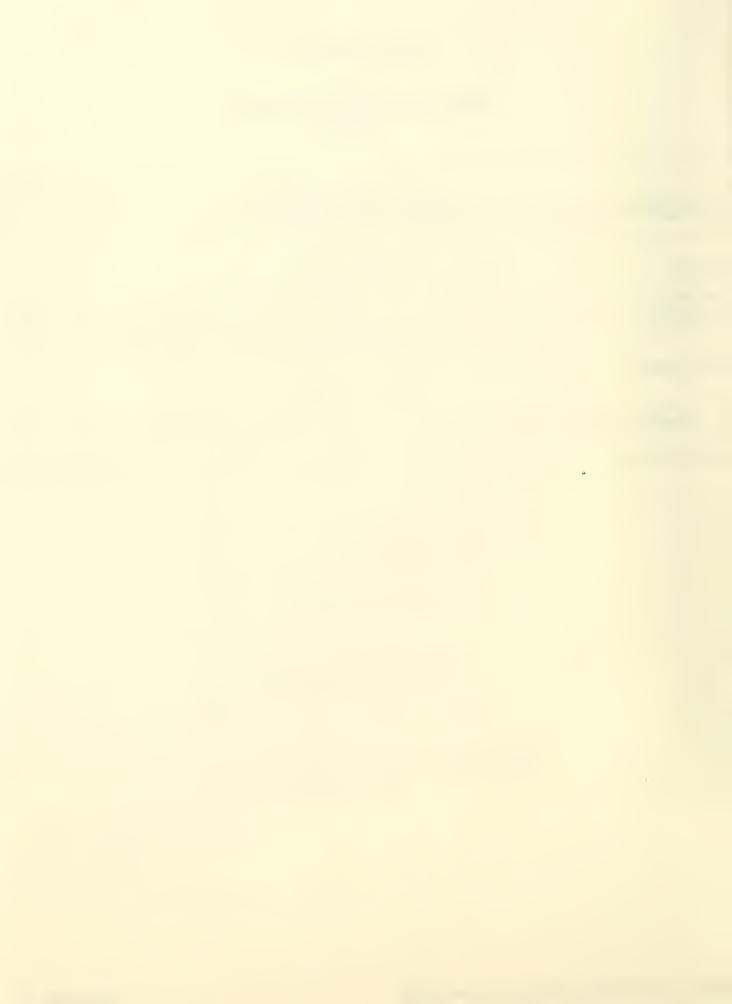
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#### INTRODUCTION

#### PURPOSE AND USES OF THE ECONOMIC **CENSUSES**

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

#### **AUTHORITY AND SCOPE**

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the

Census of Retail Trade Census of Wholesale Trade Census of Service Industries Census of Transportation Census of Manufactures Census of Mineral Industries Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

#### **AVAILABILITY OF THE DATA**

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

#### WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

#### HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying inter-

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial

activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

#### AVAILABILITY OF MORE FREQUENT **ECONOMIC DATA**

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent

observations, yield less kind-of-business and geographic detail than the censuses. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

#### SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the Guide to the 1987 Economic Censuses and Related Statistics. More information on the methodology, procedures, and history of the censuses will be published in the History of the 1987 Economic Censuses. Contact Customer Services for information on availability.

#### **CENSUS OF MINERAL INDUSTRIES**

#### General

This report, from the 1987 Census of Mineral Industries, is one of a series of nine geographic division reports, each of which provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the General Summary discusses, at greater length, many of the subjects described in this introduction. For example, the General Summary text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

#### Scope of Census and Definition of Mineral **Industries**

The 1987 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the 1987 Standard Industrial Classification (SIC) Manual<sup>1</sup>. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1987 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

#### **Establishment Basis of Reporting**

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and

to include information on receipts for services and productionworker wages and hours, by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1987 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

#### **Use of Administrative Records**

From a mailout universe of about 34,000 mining establishments, approximately 12,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment nonmail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1987 census, as in the 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

#### **Auxiliaries**

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

#### Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. The 1987 edition of this manual represents a major revision for mineral industries from the 1972 edition and its 1977 supplement. Appendix A of the 1987 manual notes the revisions in the four-digit industry levels between 1972/77 and 1987.

An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to formulation of 31 mining industries for 1987, and each was assigned a four-digit code. This represents a reduction of four-digit industries from 42 in 1972/77. The classification system also provides broader groups of industries, with 20 threedigit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating

the general items (employment, payrolls, value added, etc.) to the product and material data.

#### **CENSUS DISCLOSURE RULES**

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

#### SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Mineral Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, DC 20233.

#### ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual companies.
- (NA) Not available.
- (NC) Not comparable.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
- (X) Not applicable.
- (Z) Less than half the unit shown.
- do Ditto.
- n.e.c. Not elsewhere classified.
- n.s.k. Not specified by kind.
- r Revised.
- SIC Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "I tons."

#### CONTACTS FOR DATA USERS

CONTACTS FO	CONTACTS FOR DATA USERS												
Subject Area	Contact	Phone											
Mineral Industries-Five- year industry and product statistics	Minerals Branch Industry Division Bureau of the Census	(301) 763-5938											

Subject Area	Contact	Phone
Mineral Industries-Annual product statistics (domestic and international) except fuels	Bureau of Mines Metals Nonmetallic minerals International	(202) 634-1055 (202) 634-1202 (202) 632-8970
Mineral Indus- tries- Coal and oil and gas pro- duction	National Energy Information Center (NEIC) staff Department of Energy	(202) 586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	(301) 763-4100
Import/Export publications	Foreign Trade Division	(301) 763-5140

## Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendix]

ltem	State historical	State by industry	State by industry group and type of operation	State summary	State by county and industry group	State by county and establishment size
Establishments: Total number Employment size	1	2a, 2b	3	4 4	5	6
Employment and payroll:  Number of employees	1	2a 2a	3	4 4	5 5	
Workers	1 1 1	2a 2a, 2b 2a, 2b		4 4 4 4	5 5 5	
Value added, cost of supplies, shipments, and inventories:  Value added by mining  Cost of supplies  Resales, cost and value  Purchased fuels consumed.	1 1	2a 2a, 2b	3	4 4 4 4	5 5	
Purchased electricity	1	2a		4 4 4 4	° 5	
New and used capital expenditures excluding land and rights: Total		2a		4 4 4 4	5	
Rental payments				4		

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-- Not applicable for this report.

#### **SUMMARY OF FINDINGS**

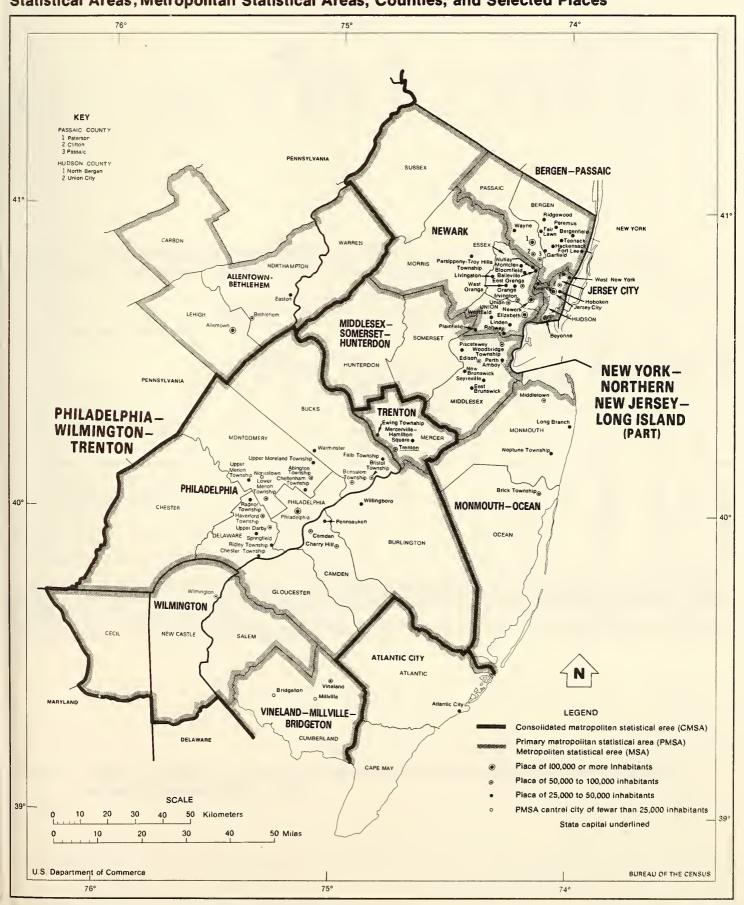
The total value of shipments and receipts for the 154 establishments classified in mineral industries in New Jersey was \$326.2 million in 1987 compared to \$181.3 million in 1982. Value added by mining amounted to \$241.2 million in 1987, and payroll in mining amounted to \$153.3 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior years,

users should take into consideration the inflation that has occurred.

Mineral industries employment in New Jersey was 4.2 thousand in 1987. This is an increase of 24 percent from 1982. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for approximately 76 percent of the State's mineral industries employment.

State Map

## NEW JERSEY-Consolidated Metropolitan Statistical Areas, Primary Metropolitan Statistical Areas, Metropolitan Statistical Areas, Countles, and Selected Places





#### Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

	Establishments during year		All employees		Production, development, and exploration workers				Cost of supplies		
Year	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
1987	154 165 157 145	44 40 36 42	4.2 3.4 3.0 3.3	153.3 101.8 48.6 36.8	1.9 1.6 1.7 2.1	4.0 3.3 3.5 4.4	46.7 32.0 22.1 19.4	241.2 120.1 93.3 78.0	116.2 77.6 49.9 43.2	326.2 181.3 130.4 102.8	31.2 16.5 12.7 18.3

#### Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries and industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			1987												1982	
SIC				shments ig year	All employees		Production, development, and exploration workers				Cost of supplies					
code	Industry group and industry	e Industry group and industry	E¹	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees <sup>2</sup> (1,000)	Value added by mining (million dollars)
	All Industries	E2	154	44	4.2	153.3	1.9	4.0	46.7	241.2	116.2	326.2	31.2	3.4	120.1	
13	Oll and gas extraction	<b>E</b> 6	37	4	cc	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	10.7	
131 1311	Crude petroleum and natural gas Crude petroleum and natural gas	-	13 13	1	CC	(D) (D)	-	-	_	_	_	-	=	CC	-	
138	Oil and gas field services	E6	24	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	10.7	
14	Nonmetallic minerals, except fuels	E1	111	39	3.2	105.3	1.7	3.5	41.6	220.8	107.0	299.0	<b>28.</b> 9	2.2	102.2	
1422 1423 1429	Crushed and broken stone, including nprap	E1 - E2	25 5 4 16	16 4 2 10	1.2 AA AA .7	33.6 (D) (D) 17.9	.8 (D) (D) .6	1.7 (D) (D)	21.0 (D) (D) 13.2	122.6 (D) (D) 57.0	56.3 (D) (D) 35.8	162.7 (D) (D) 86.8	16.1 (D) (D) 6.0	.6 AA (NA)	42.9 (D) (NA) 30.5	
144 1442 1446	Sand and gravel Construction sand and gravel Industrial sand	E2 E3	72 61 11	18 14 4	1.0 .8 .2	27.3 21.2 6.0	.8 .6 .2	1.6 1.2 .4	18.2 14.1 4.1	88.6 67.5 21.2	45.1 31.7 13.4	122.0 89.7 32.3	11.7 9.4 2.3	1.0 .6 .4	54.6 33.8 20.8	
145 1455	Clay, ceramic, and refractory minerals_ Kaolin and ball clay	-	5 3	3	CC	(D) (D)	(D) -	(D)	(D) _	(D) -	(D) -	(D)	(D) -	CC	(D) (D)	

Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

2General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Mining Activities of Manufacturing Establishments With Associated Mines by Table 2b. Industry for the State: 1987

[Not Applicable]

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

							Produc	ing establish	ments					
					Mines	only		Mir	nes with pre	paration plai	nts			
SIC code	Industry group and item	All types of estab-	Total	Total	Under- ground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods	Sepa- rately operated prepara- tion plants	Undistri- buted¹	Nonpro- ducing estab- lishments
	ALL INDUSTRIES													
	Establishments number_ Employees 1,000_ Value added in mil dol	154 4.2 241.2	154 4.2 241.2	15 (D) (D)	-	(D)	11 (D) -	64 1.9 193.1	- -	62 (D) (D)	(D)	1 (D) (D)	74 (D) (D)	<u>-</u>
10	METAL MINING													
	Establishments	6 (D) (D)	6 (D) (D)	-	- -	- - -	- -	1 (D) (D)	- -	1 (D) (D)	- -	-	5 (D) (D)	- -
103	LEAD AND ZINC ORES													
	Establishments number Employees 1,000 Value added in mil dol	(Z) -	1 (Z) -	-	- - -	-	- -	-	<u>-</u>	-	-	-	1 (Z)	- - -
104	GOLD AND SILVER ORES													
	Establishments number_ Employees 1,000 Value added in mining mil dol	1 (Z)	1 (Z)	=	-	-	- - -	-	<u>-</u>	- -		- - -	1 (Z)	<u>-</u>
108	METAL MINING SERVICES													
	Establishments number_ Employees 1,000_ Value added in mining mil dol	(D)	(D)	-	<u>-</u> -	-	-	-	- -	-	-	-	2 (D) (D)	<u>-</u>
109	MISCELLANEOUS METAL ORES													
	Establishments number _ Employees 1,000 _ Value added in mining mil dol	(D)	(D)	- -	- -	-	-	1 (D) (D)	- -	1 (D) (D)	-	- -	1 (D) (D)	-
13	OIL AND GAS EXTRACTION													
	Establishments number Employees 1,000 Value added in mil dol	37 (D) (D)	37 (D) (D)	11 (D) -	-	=	11 (D) -	-	=	-	=	<u>-</u>	26 (D)	Ξ.
131	CRUDE PETROLEUM AND NATURAL GAS													
	Establishments number_ Employees 1,000_ Value added in mining mil dol	13 (D)	13 (D)	11 (D) -	-	:	11 (D) -	- -	- -	<u>-</u>	-	-	2 (D) -	-
138	OIL AND GAS FIELD SERVICES													
	Establishments number Employees 1,000 Value added in mil dol	24 (D) (D)	24 (D) (D)	-	-	-	-	=	-	-	-	-	24 (D) (D)	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments number_ Employees 1,000 Value added in mining mil dol	111 3.2 220.8	111 3.2 220.8	4 (D) (D)	-	4 (D) (D)	- - -	63 (D) (D)	- -	61 (D) (D)	2 (D) (D)	1 (D) (D)	43 (D) (D)	=

See footnotes at end of table.

### Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For I	For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]  Producing establishments													
							Produc		-					
	-				Mine	s only		Mir	nes with pre	paration pla	nts			
SIC	Industry group and item	All types of estab- lishments	Total	Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods	Sepa- rately operated prepara- tion plants	Undistri- buted <sup>1</sup>	Nonpro- ducing estab- lishments
14	NONMETALLIC MINERALS, EXCEPT FUELS —Con.													
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP													
	Establishments number_ Employees 1,000_ Value added in mining mil dol	25 1.2 122.6	25 1.2 122.6	-	- -	-	- -	24 (D) 122.6	- - -	24 (D) 122.6	-	- - -	1 (D) -	<u>-</u>
144	SAND AND GRAVEL													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	72 1.0 88.6	72 1.0 88.6	2 (D) (D)	- -	2 (D) (D)	- - -	35 .7 64.3	-	33 (D) (D)	2 (D) (D)	1 (D) (D)	34 (D) (D)	= -
145	CLAY, CERAMIC, AND REFRACTORY MINERALS													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	5 (D) (D)	5 (D) (D)	2 (D) (D)	- -	(D)	<u>-</u> -	- - -	<u>-</u>	- -	-	- -	3 (D) -	<u>-</u>
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS													
	Establishments number_ Employees 1,000_ Value added in mining mil dol	5 .1 3.6	5 .1 3.6	-	-	- -	-	-	-	-	-	- - -	5 .1 3.6	-
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	4 (D) (D)	4 (D) (D)	- -	- -	- - -	- -	4 (D) (D)	- -	4 (D) (D)	- -	- - -	- -	-

Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

#### Table 4. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	Item	1987
Establishments during year	154 110 37 7 4.2 153.3	Cost of supplies mil dol Supplies used, minerals received, and purchased machinery installed do Resales do Purchased fuels consumed do Purchased electric energy: Quantity mil kWh Cost mil dol Electric energy generated less sold mil kWh Contract work mil dol mil kWh	116.2 77.5 6.8 12.4 171.4 12.6 (D)
Average to year       ,000         March       do         May       do         August       do         November       do         Hours       millions         January to March       do         April to June       do         July to September       do	1.8 1.8 2.0 1.9 4.0 .9 1.0	Cost of purchased communication services	.5 326.2 8.6 31.2 24.7 2.7
October to December	1.0 46.7 1 <b>5</b> .0	Machinery and equipmentdo  Used capital expenditures during yeardo  Buildings and other structures, except landdo  Machinery and equipmentdo  Mineral exploration and development1	22.0 4.8 .1 4.7
contributions	7.8 7.2 241.2 36.4 37.1	Rental payments during yeardo Buildings and other structures, except landdo Machinery and equipmentdo  Expensed mineral exploration, development, land, and rights <sup>1 2</sup> do	4.7 .3 4.4 (D)

#### Table 5. Industry Group Statistics for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

				nents during ear	All employees			n, developm oration work			Cost of supplies used.		
SIC code	Geographic area and industry group	E¹	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
	New Jeraey	<b>E</b> 2	154	44	4.2	153.3	1.9	4.0	46.7	241.2	116.2	<b>326.</b> 2	31.2
	Cumberland County	E1	11	5	.3	6.5	.2	.5	4.9	22.3	13.5	33.3	2.5
14 144	Nonmetallic minerals, except fuels Sand and gravel	E1 E1	11 11	5 5	.3 .3	6.5 6.5	.2 .2	.5 .5	4.9 4.9	22.3 22.3	13.5 13.5	33.3 33.3	2.5 2.5
	Middlesex County	E1	12	5	.8	37.9	.1	.2	2.7	19.1	7.1	23.4	2.9
14 144 145	Nonmetallic minerals, except fuels Sand and gravel Clay, ceramic, and refractory minerals	E1 E2	12 9 3	5 3 2	.8 AA CC	37.9 (D) (D)	.1 (D) (D)	.2 (D) (D)	2. <b>7</b> (D) (D)	19.1 (D) (D)	<b>7.1</b> (D) (D)	23.4 (D) (D)	2.9 (D) (D)
	Morris County	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including nprap _	-	3 1	2	AA AA	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> )	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)
	Ocean County	E3	10	4	.2	3.7	.1	.2	2.6	8.5	4.5	12.4	.6
14	Nonmetallic minerals, except fuels	E4	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Somerset County	E1	8	6	.6	15.3	.4	.9	10.2	59.1	<b>25.</b> 9	78.3	6.7
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including riprap _	<b>E</b> 1 E1	7 7	6	CC CC	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	(D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)
	Sussex County	<b>E</b> 2	17	6	.4	12.2	.3	.6	7.1	30.1	16.7	44.1	2.7
14 142 144	Nonmetallic minerals, except fuels Crushed and broken stone, including riprap _ Sand and gravel	E2 E5	16 7 8	6 4 2	<b>BB</b> BB .2	(D) (D) 4.1	.3 (D) .1	.6 (D) .3	<b>7.1</b> (D) 3.5	30.1 (D) 11.9	16.7 (D) 4.2	<b>44.1</b> (D) 14.9	2.7 (D) 1.2
	Union County	-	1	1	AA	(D)	-	-	-	-	-	-	-
14 145	Nonmetallic minerals, except fuels Clay, ceramic, and refractory minerals	-	1 1	1	AA AA	( <b>D</b> ) (D)	-	-	=	-	-	-	-

¹Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

2Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees; rmore, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected. ²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

## Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude prtroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment- size class <sup>1</sup>	- All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas ex- traction (SIC 13)	Non- metallic minerals mining (SIC 14)	Geographic area and employment- size class¹	All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas ex- traction (SIC 13)	Non- metallic minerals mining (SIC 14)
New Jersey	154	6	-	37	111	New Jersey—Con. Middlesex	12	_	-		12
0 to 4 employees	62	1	-	26	35	0 to 19 employees	7	_	_	_	7
5 to 9 employees	25 23	4	-	5	16	20 to 99 employees	3		_		á
10 to 19 employees	23	-	-	2 2	21 23	100 to 249 employees	1	_	-	-	1
20 to 49 employees	11		_	1	10	250 employees or more	1	-	-	-	1
100 to 249 employees	5	_	_	1 -	5	Managementh	6				•
500 to 999 employees	2	-	-	1	1	Monmouth		-	-	-	
	1					0 to 19 employees	6	-	- 1	-	6
Atlantic	3	-	-	-	3	Morris	3	-	-	-	3
0 to 19 employees	3	_	_	_	3	0 to 19 employees	1	_	_	_	1
						20 to 99 employees	i		-	- 1	i
Bergen	5	-	_	-	5	100 to 249 employees	1	-	-	-	1
20.90	1				_			_			
0 to 19 employees	4	-	-	-	4	Ocean	10	1	-	-	9
20 to 99 employees	1	-	-	-	1	0 to 19 employees	6	-	-	- 1	6
					_	20 to 99 employees	4	1	-	-	3
Burlington	3	-	-	-	3	Barrata					_
0 to 19 employees	3	_	_	_	3	Passalc	6	-	-	-	6
0 to 19 employees	, ,	_	_	_	,	0 to 19 employees 20 to 99 employees	3	-	-	-	3
Camden	6	_	_	_	6	20 to 99 employees	3	-	-	-	3
Callideli	ľ	_	_	_	٠ .	Salem	1				
0 to 19 employees	6	-	_	-	6		'	_	-	-	
						0 to 19 employees	1	-	-	-	1
Cape May	4	-	-	-	4	0					_
						Somerset	8	,	-	-	,
0 to 19 employees 20 to 99 employees	2 2	-	-	-	2 2	0 to 19 employees	2 4	1	-	-	1
20 to 99 employees	-	_	_	_	_ ~	20 to 99 employees	4	-	-	-	4
Cumberland	11	_	_	_ :	11	100 to 249 employees	2	-	-	-	2
Odiliberialid				_	• • • • • • • • • • • • • • • • • • • •	Sussex	17	1	_	_	16
0 to 19 employees	6	-	_	-	6						
20 to 99 employees	5	-	-		5	0 to 19 employees 20 to 99 employees	11 6	1		-	10
						20 to 99 employees	°	_		-	
Gloucester	4	-	-	-	4	Union	1	-	-	_	1
O to 10 ampleuses	3				3	100 to 249 employees	1				
0 to 19 employees 20 to 99 employees	1		_	]	3	100 to 249 employees	'	_	_	_	'
ZO TO GO CIMPIO/OCCITITION	• 1			_	· '	Warren	5	_	_	-	5
Hunterdon	3	-	_	_	3		3				_
						0 to 19 employees	2	-	_	-	3
0 to 19 employees	2	-	-	-	2	Lo to ob employees	2	_		_	2
20 to 99 employees	1	-	-	-	1	Undistributed	44	2		37	5
											3
Mercer	2	1	-	-	1	0 to 19 employees	39	2	-	33 3	4
0 to 19 employees	2	1	_		1	20 to 99 employees 250 employees or more	4			1	1
			_			Loo cimployees of more			_	'	

Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."



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#### **New York**

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Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987\_\_\_\_\_

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#### **SUMMARY OF FINDINGS**

The total value of shipments and receipts for the 466 establishments classified in mineral industries in New York was \$641.7 million in 1987 compared to \$576.8 million in 1982. Value added by mining amounted to \$484.3 million in 1987, and payroll in mining amounted to \$342.1 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in New York was 8.8 thousand in 1987, or 1 percent of the Nation's total. This is an increase of 13 percent from 1982. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for approximately 67 percent of the State's mineral industries value of shipments and receipts.

NEW YORK - Consolidated Metropolitan Statistical Areas, Primary Metropolitan Statistical Areas,

44° 43° 450 410 (PART) BUREAU OF THE CENSUS 40° NORTHERN NEW JERSEY-X SUFFOLK 720 NASSAU-SUFFOLK **NEW YORK**— LONG ISLAND 72° ALBANY-SCHENECTADY-TROY MASSACHUSETTS POUGHKEEPSIE CONNECTICUT SEE INSET VERMONT 73° WESTCHESTER **NEW YORK** 73° OUEENS Albany () o of SOUTHBIA! GLENS CLINTON UTNAN ESSEX WARREN ALBANY 740 GREENE BRONX NEW YORK: 740 ULSTER ROCKLAND NEW JERSEY New York ORANGE FRANKLIN SCHOHARIE ONTGOMER RICHMOND. FULTON HAMILTON ORANGE SULLIVAN BINGHAMTON BUNNELL DELAWARE OTSEGO ST. LAWRENCE 75° 75° UTICA-ROME Utica@/ LEWIS ONEIDA CHENANGO Metropolitan Statistical Areas, Countles, and Selected Places MADISON U.S. Department of Commerce JEFFERSON Watertown BROOME CONNTIBOO SANGEMON Z SYRACUSE 92 ONONDAGA Syracuse CANADA TIOGA 3 CAYUGA Ungny SCHUMER !! SENECY 410 WAYNE -Rochester ELMIRA CHEMUNG-YATES 100 Miles ONTARIO Consolidated matropolitan stetisticel eree (CMSA) MSA central city of fewer than 25,000 inhebitants NORTHERN NEW JERSEY—
30 Kilometers LONG ISLAND
30 Miles (PART) **NEW YORK**irondequoit STEUBEN ROCHESTER PENNSYLVANIA Primary metropoliten statisticei area (PMSA) Place of 50,000 to 100,000 inhebitants 100 Kilometers Pisce of 25,000 to 50,000 inhabitants Place of 100,000 or more inhabitants 8 Metropolitan statistical erea (MSA) 73° ALLEGANY State capital underlined 73° 78° SCALE GENESEE WYOMING ORLEANS 8 8 30 Miles CATTARAUGUS 9 Buffalo West Seneca 8 NIAGARA NIAGARA ERIE 9 8 2-290 BUFFALO Cheektowaga 8 North Tonawanda CHAUTAUQUA NIAGARA 0 0 BUFFALO Jamestown ₽. - INSET 0 0-45° 43° 410 440 45°



#### Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbrevietions and symbols, see introductory text. For explanation of terms, see appendixes]

	Establishments during yeer		All employees			on, developm loretion work			Cost of supplies		
Year -	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Velue edded by mining (million dollars)	used, purchesed machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
1987 1982 1977 1972	466 1537 467 461	77 (NA) 63 74	8.8 7.8 7.1 7.7	342.1 204.5 133.5 94.1	3.9 4.3 4.2 4.7	8.7 9.0 8.6 10.1	98.8 88.3 61.3 47.0	484.3 414.7 217.8 154.3	219.9 261.3 113.4 64.0	641.7 576.8 298.1 193.1	62.5 99.2 33.1 25.2

Restated to reflect the 1987 definition of establishments in the crude petroleum and natural gas end mining services industries.

#### Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries end industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explenation of terms, see appendixes]

		1987											1982		
010				shments ig year				n, developi oration wor			Cost of supplies used.				
SIC	Industry group and industry	E1	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number	Hours (millions)	Wages (million dollars)	Value added by mining (million dollers)	purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollers)	Capital expendi- tures (million dollars)	All em- ployees <sup>2</sup> (1,000)	Value added by mining (million dollars)
	All Industries	E2	466	77	8.8	342.1	3.9	8.7	98.8	484.3	219.9	641.7	6 <b>2.5</b>	7.8	414.7
10	Metal mining	E1	16	7	cc	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
102 1021	Copper ores	-	2 2	1	BB BB	(D) (D)	_	-	-	_	-	-	-	.8 .8	=
103 1031	Lead and zinc ores	E1 E1	5 5	3 3	AA AA	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	BB BB	(D) (D)
13	Oil and gas extraction	<b>E</b> 6	197	22	4.2	204.1	.7	1.6	15.7	153.5	55.2	185.9	22.7	2.4	198.2
131 1311		E6 E6	107 107	16 16	3.6 3.6	189.6 189.6	.3 .3	.7 .7	6.8 6.8	128.0 128.0	42.0 42.0	149.4 149.4	20.7 20.7	1.0 1.0	106.3 106.3
138 1381 1389	Oil and gas field services	E4 E4 E3	90 29 41	6 2 4	.6 .2 .4	14.5 4.5 8.3	.4 .2 .2	1.0 .4 .5	8.8 3.5 4.1	25.4 9.0 13.5	13.1 5.1 6.5	36.5 13.4 19.0	2.1 .8 1.0	EE .6 .6	(D) 30.3 49.5
14	Nonmetallic minerals, except fuels	E1	247	48	3.9	<b>105</b> .8	3.1	6.8	78.3	315.5	152.5	429.2	38.8	3.4	192.5
142 1422 1429	Crushed and broken stone, including riprap	- E2	71 51 17	25 16 8	1.6 1.0 .5	45.4 31.1 12.9	1.3 .9 .4	3.1 2.0 1.0	35.8 24.4 10.5	136.2 97.3 36.2	75.0 52.4 (D)	188.5 131.0 53.7	22.6 18.6 (D)	EE 1.0 .3	(D) 53.9 17.8
144 1442	Sand and gravel Construction sand and gravel	E2 E2	148 144	15 15	EE 1.3	(D) 32.7	(D) 1.0	(D) 2.0	(D) 23.0	(D) 89.3	(D) 51.6	(D) 130.6	(D) 10.2	.9 .9	43.1 42.1
147 1479	Chemical and fertilizer mineral mining _ Chemical and fertilizer mineral mining, n.e.c	-	3	2	BB BB	(D) (D)	(D)	(D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	.8 (NA)	54.1 (NA)
149	Miscellaneous nonmetallic minerals,					(0)	(0)	(5)	(5)		, ,		, ,		` '
1499	except fuels Miscellaneous nonmetallic minerals.	-	13	5	.5	11.5	.4	.7	8.2	36.9	(D)	46.6	(D)	ВВ	(D)
	except fuels	-	13	5	.5	11.5	.4	.7	8.2	36.9	(D)	46.6	(D)	ВВ	(D)

¹Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government egencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small esteblishments. This technique was also used for e small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated date besed on administrative-record data account for 10 percent or more of figures shown: E1-0 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

2General statistics for some industries and industry groups are withheld to avoid disclosing date for individuel companies. However, for such industries end industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA-100 to 249 employees; BB-250 to 499 employees; CC-500 to 999 employees; EE-1,000 to 2,499 employees; FF-2,500 employees or more.

#### Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1987

[Represents data reported for mining ectivities by esteblishments classified in manufecturing industries. Figures mey be understeted due to use of edministrative records end short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see eppendixes]

			ment, end exploration kers		
Industry group end industry	Esteblishments during yeer (number)	Hours (millions)	Weges (million dollers)	Cost of supplies used, etc. (million dollars)	Quentity of production (1,000 s tons)
Nonmetallic minerel mines included in menufectures Crushed end broken stone, including riprep Crushed end broken limestone Gypsum	8 3 3 1	.3 (D) (D) (D)	3.7 (D) (D) (D)	8.7 (D) (D) (D)	(X) (D) (D) (D)

Note: Industries end industry groups with less then 50 thousand hours for employees engeged in production, development, end exploration work ere not shown.

#### Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

							Produc	ing establish	ments					
					Mines	only		Mir	nes with prep	aration plan	nts			
SIC code	Industry group and item	All types of estab- lishments	Total	Total	Under- ground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods	Sepa- rately operated prepara- tion plants	Undistri- buted1	Nonpro- ducing estab- lishments
	ALL INDUSTRIES													
	Establishments number Employees 1,000 Value added in mining mil dol	466 8.8 484.3	457 8.8 484.3	101 .7 139.4	3 (D) (D)	10 (D) (D)	88 .5 127.9	132 3.1 271.1	3 (D) (D)	127 2.5 197.2	2 (D) (D)	3 (D) (D)	221 (D) (D)	9 (Z) (Z)
10	METAL MINING													
	Establishments	16 (D) (D)	16 (D) (D)	3 (D) (D)	3 (D) (D)	-	-	(D) (D)	1 (D) (D)	1 (D) (D)	- -	-	11 (D) (D)	-
101	IRON ORES			:										
	Establishments number_ Employees 1,000_ Value added in mining mil dol	(D) (D)	(D) (D)	-	-	-	-	(D)	-	(D)	-	-	-	- -
102	COPPER ORES													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	2 (D)	(D) -	-	-	- - -	- -	- -	- -	- -	- -	- -	2 (D)	- -
103	LEAD AND ZINC ORES										u u			
	Establishments number_ Employees 1,000_ Value added in mil dol	5 (D) (D)	5 (D) (D)	3 (D) (D)	3 (D) (D)	-	-	1 (D) (D)	1 (D) (D)	<u>-</u> -	- -	-	(D)	- -
104	GOLD AND SILVER ORES													
	Establishments number_ Employees 1,000_ Value added in mil dol	1 (D)	1 (D) -	- -	-	- -	- -	- -	- -	- - -	<u>-</u>	-	1 (D) -	- -
108	METAL MINING SERVICES													
	Establishments number_ Employees 1,000_ Value added in	7 (D)	7 (D)	=	-	-	Ξ	-	-	-	-	-	7 (D)	Ξ
	mining mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
12	COAL MINING													
	Establishments number Employees 1,000 Value added in	6 (D)	6 (D)	1 -	-	1 -	-	-	-	-	-	-	5 (D)	=
	mining mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	(D)	-
122	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments number Employees 1,000	4 (D)	4 (D)	1	-	1	-	_	=	-	_	-	. 3 (D)	Ξ
	Value added in mining mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
124	COAL MINING SERVICES													
	Establishments number Employees 1,000	2 (D)	2 (D)	-	-	-	-	-	-	-	-	-	2 (D)	-
	Value added in mining mil dol	(D)	(D)	-	-	-	-	_	-	-	-		(D)	-
13	OIL AND GAS EXTRACTION													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	197 4.2 153.5	192 4.2 153.3	88 .5 127.9	-	-	88 .5 127,9	-	-	-	Ξ	-	104 3.7 25.4	5 (Z)

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

	neaning of abbreviations and symbo							ing establish	ments					
					Mines	s only		Mir	nes with pre	paration plai	nts			
SIC code	Industry group and item	All types of estab- lishments	Total	Total	Under- ground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods	Sepa- rately operated prepara- tion plants	Undistri- buted <sup>1</sup>	Nonpro- ducing estab- lishments
13	OIL AND GAS EXTRACTION— Con.													
131	CRUDE PETROLEUM AND NATURAL GAS													
	Establishments number Employees	107 3.6 128.0	102 3.6 127.9	88 .5 127.9	- -	- -	88 .5 127.9	- -	- -	- - -	-	-	14 3.0 -	5 (Z) .2
138	OIL AND GAS FIELD SERVICES													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	90 .6 25.4	90 .6 25.4	- -	- - -	<u>-</u>	=	-	- -	- -	-	- -	90 .6 25.4	- -
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments number Employees 1,000 Value added in mining mil dol	247 3.9 315.5	243 3.9 315.7	9 (D) (D)	- - -	9 (D) (D)	-	130 (D) (D)	2 (D) (D)	126 (D) (D)	2 (D) (D)	3 (D) (D)	101 (D) (D)	4 (Z) 2
141	DIMENSION STONE													
	Establishments number_ Employees 1,000 Value added in mining mil dol	4 (D) (D)	4 (D) (D)	3 (D) (D)	-	3 (D) (D)	- - -	1 (D) (D)	- -	1 (D) (D)	-	-	-	-
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP													
	Establishments number_ Employees 1,000 Value added in mining mil dol	71 1.6 136.2	69 (D) (D)	- - -	- - -	-	-	64 (D) (D)	<u>-</u>	64 (D) (D)	_ -	1 (D) (D)	4 (D) -	2 (D) (D)
144	SAND AND GRAVEL													
	Establishments number_ Employees1,000 Value added in mining mil dol	148 (D) (D)	147 (D) (D)	4 (D) (D)	- - -	4 (D) (D)	-	51 (D) (D)	-	50 (D) (D)	1 (D) (D)	2 (D) (D)	90 (D) (D)	1 (D) (D)
145	CLAY, CERAMIC, AND REFRACTORY MINERALS													
	Establishments number_ Employees 1,000 Value added in mining mil dol	3 (D) (D)	2 (D) (D)	1 (D) (D)	-	1 (D) (D)	-	- - -	- -	-	-	-	1 (D) -	1 (D) (D)
147	CHEMICAL AND FERTILIZER MINERAL MINING													
	Establishments number_ Employees 1,000_ Value added in mining mil dol	3 (D) (D)	3 (D) (D)	- -	- -	- -	<u>-</u>	2 (D) (D)	2 (D) (D)	_ _ _	- - -	- - -	(D)	= =
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS													
	Establishments number_ Employees 1,000 Value added in mining mil dol	5 (D) (D)	5 (D)	· -	-	-	-	-	-	-	-	-	5 (D)	-

See footnotes at end of table.

### Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987-

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

							Produc	ing establish	nments					
					Mine	s only		Mi	nes with pre	paration pla	nts			
SIC	Industry group and item	All types of estab- lishments	Total	Total	Under- ground mines	pit	Combination methods, well operations, and other methods		Under- ground mines	pit	Combina- tion and other methods		Undistri- buted <sup>1</sup>	Nonpro- ducing estab- lishments
14	NONMETALLIC MINERALS, EXCEPT FUELS —Con.													
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments number_ Employees 1,000_	13 .5	13 .5	1 (D)	-	1 (D)	-	12 (D)	-	11 (D)	1 (D)	-	-	-
	Value added in mining mil dol	36.9	36.9	(D)	-	(D)	-	(D)	-	(D)	(D)	-	-	-

Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

#### Table 4. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	Item	1987
Establishments during year	466 389 65	Cost of supplies mil dol Supplies used, minerals received, and purchased machinery installed do	219.9 141.3
With 100 employees or moredo		Resales do Purchased fuels consumed do	.9
All employees:	8.8	Purchased electric energy:	
Average for year 1,000 Payroll for year mil dol	342.1	Quantity mil kWh Cost mil dol_	402.2 23.4
Production, development, and exploration workers:  Average for year 1,000	3.9	Electric energy generated less sold mil kWh_ Contract work mil dol_	(D) 35.4
March do May do	3.5 4.0	Cost of purchased communication servicesdo	.7
Augustdo Novemberdo		Value of shipments and receiptsdo Value of resalesdo	641.7 1.2
Hoursmillions January to Marchdo_	8.7 1.8 2.2	Capital expenditures during year (except land and mineral rights)do	62.5 40.4
April to June do do July to September do October to December do	2.2 2.4 2.2	New capital expenditures during yeardodododo	3.8 36.6
Wages mil dol	98.8	Used capital expenditures during yeardodododo	7.0 .2
Supplemental labor costs not included in payrolldo Legally required expenditures, including Social Security	31.3	Machinery and equipmentdo	6.9
contributionsdo_ Payments for voluntary programsdo_	14.4 16.9	Mineral exploration and development <sup>1</sup> do	15.1
Value added by mining do	484.3	Rental payments during yeardododo	8.0 1.1
Inventories, beginning of 1987		Machinery and equipmentdo	7.0
Inventories, end of 1987do_	86.5	Expensed mineral exploration, development, land, and rights <sup>1 2</sup> do	9.2

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected. ²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

#### Table 5. Industry Group Statistics for Counties: 1987

[Data for the crude petrcleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

	eviations and symbols, see introductory text. For		Establishn	ments during ear	All emp	loyees	Productio expl	n, developm oration work	ent, and ers		Cost of supplies		
SIC code	Geographic area and industry group	E۱	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
	New York	E2	466	77	8.8	342.1	3.9	8.7	98.8	484.3	219.9	641.7	62.5
	Albany County	E5	5	3	.2	4.0	.2	.4	3.2	8.2	(D)	14.4	(D)
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including riprap _	<b>E5</b>	5 3	3	AA	<b>4.0</b> (D)	.2 (D)	.4 (D)	3.2 (D)	8.2 (D)	(D) (D)	14.4 (D)	( <b>D</b> ) (D)
	Dutchess County	-	15	3	.3	8.6	.2	.5	6.6	35.1	11.4	42.8	3.6
14 142 144	Nonmetallic minerals, except fuels Crushed and broken stone, including riprap _ Sand and gravel	E1	15 2 12	3 1 2	.3 AA AA	8.6 (D) (D)	.2 (D) (D)	.5 (D) (D)	<b>6.6</b> (D) (D)	35.1 (D) (D)	11.4 (D) (D)	<b>42.8</b> (D) (D)	3.6 (D) (D)
	Essex County	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 149	Nonmetallic minerals, except fuels Miscellaneous nonmetallic minerals, except	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	fuels	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Jefferson County Nonmetallic minerals, except fuels	E1	12 12	3	.1	3.2 3.2	.1	.2 .2	2.5 2.5	12.4 12.4	5.6 5.6	15,1 15,1	2.9 2.9
	Livingston County		4	1	ВВ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 147	Nonmetallic minerals, except fuels Chemical and fertilizer mineral mining	-	4	1	<b>BB</b> BB	(D) (D)	(D) (D)	(D) (D)	( <b>D</b> )	(D) (D)	(D)	(D) (D)	(D) (D)
	Monroe County	E3	16	3	.2	4.6	.1	.2	2.8	11.7	4.2	15.1	.8
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including nprap _	<b>E3</b> E2	<b>15</b> 5	3 3	AA AA	(D) (D)	( <b>D</b> ) (D)	(D)	(D) (D)	(D) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	(D) (D)
	New York County	E9	8	2	ВВ	(D)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
10 102	Metal miningCopper ores	<u>-</u>	4 2	2 1	BB BB	(D) (D)	-	-	-	<u>-</u>	-	-	-
	Onelda County	_	11	2	.1	3.2	.1	.2	2.1	6.5	4.2	10.0	.8
14	Nonmetallic minerals, except fuels	-	11	2	.1	3.2	.1	.2	2.1	8.5	4.2	10.0	.8
	Onondaga County	E2	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including riprap _	E2 -	7	1	AA AA	(D) (D)	(D)	(D) (D)	(D) (D)	(D) (D)	( <b>D</b> )	(D) (D)	( <b>D</b> ) (D)
	Orange County	E3	7	1	.1	2.9	.1	.2	2.2	3.0	1.7	4.4	.3
14 144	Nonmetallic minerals, except fuels Sand and gravel	E3 E3	7 6	1 1	.1 AA	2.9 (D)	.1 (D)	. <b>2</b> (D)	2.2 (D)	3.0 (D)	1.7 (D)	4.4 (D)	.3 (D)
	Rockland County	-	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including riprap _	<u>-</u>	5 4	3 3	AA AA	(D) (D)	(D) (D)	( <b>D</b> )	(D) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)
	St. Lawrence County	-	11	5	.4	11.2	.3	.8	6.2	33.5	14.9	46.3	2.1
10 103	Metal mining Lead and zinc ores	E1 E1	4 4	3	AA AA	( <b>D</b> ) (D)	( <b>D</b> )	(D)	(D) (D)	( <b>D</b> ) (D)	( <b>D</b> )	( <b>D</b> )	( <b>D</b> ) (D)
14 149	Nonmetallic minerals, except fuels Miscellaneous nonmetallic minerals, except	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
, ,,,	fuels	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Suffolk County	E1	19	3	.2	5.1	.2	.3	3.9	18.6	16.0	31.6	3.0
14 144	Nonmetallic minerals, except fuels Sand and gravel	E1 E2	19 14	3 2	.2 .1	5.1 3.4	.2 .1	.3 .2	3.9 2.6	1 <b>8.6</b> 9.8	16.0 12.9	31.6 21.7	3.0 1.0
	Tompkins County	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 147	Nonmetallic minerals, except fuels Chemical and fertilizer mineral mining	-	1	2 1	AA AA	(D) (D)	( <b>D</b> )	( <b>D</b> )	( <b>D</b> )	(D) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)
	Ulster County	-	9	2	.1	3.3	.1	.3	2.3	10.5	4.3	14.5	.4
14	Nonmetallic minerals, except fuels	-	9	2	.1	3.3	.1	.3	2.3	10.5	4.3	14.5	.4
20	Warren County	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
149	Nonmetallic minerals, except fuels Miscellaneous nonmetallic minerals, except	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	fuels	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Washington County	E4	8	2	.1	1.8	.1	.2	1.5	6.0	2.4	8.0	.5
14	Nonmetallic minerals, except fuels	E4	8	2	.1	1.8	.1	.2	1.5	6.0	2.4	8.0	.5

Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

2Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA-100 to 249 employees; BB-250 to 499 employees; CC-500 to 999 employees; EE-1,000 to 2,499 employees; FF-2,500 employees or more.

## Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude prtroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes!

Geographic area and employment- size class <sup>1</sup>	All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas ex- traction (SIC 13)	Non- metallic minerals mining (SIC 14)	Geographic area and employment- size class1	All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas ex- traction (SIC 13)	Non- metallic minerals mining (SIC 14)
New York	466	16	6	197	247	New York-Con. Lewis	1	_	_	_	
0 to 4 employees 5 to 9 employees	214 89	6	4 2	123 31	81 56	0 to 19 employees	1	_ [	_	_	1
10 to 19 employees	86	3	-	21	62						
20 to 49 employees	51 14	4 2	-	13 4	34 8 5	Livingston	4	-	-	-	4
100 to 249 employees 250 to 499 employees	6	- 1		1	5	0 to 19 employees 250 employees or more	3	_	_	_	1
500 to 999 employees	2	-	-	2	-	Madison	2	_	_	_	2
1,000 to 2,499 employees	'	-	-	1	-	0 to 19 employees	2				2
Albany	5	-	-	-	5						45
0 to 19 employees 20 to 99 employees	2	-	-		2	Monroe	16	-	1	-	15
			_	_		0 to 19 employees 20 to 99 employees	1 <b>3</b> 3	_ [	1 -	_	12 3
Allegany		-	-	-		Montgomery	3	_	_	_	3
0 to 19 employees	'	-	-	_	1	0 to 19 employees	2	_	_	_	2
Bronx	1	-	-	-	1	20 to 99 employees	1	-	-	-	ī
20 to 99 employees	1	-	-	-	1	Nassau	3	-	1	-	2
Broome	2	-	-	-	2	0 to 19 employees	3	-	1	-	2
0 to 19 employees	2	-	-	-	2	New York	8	4	2	_	2
Cattaraugus	7	-	-	-	7	0 to 19 employees	6	2	2	_	2
0 to 19 employees	7	_	_	_	7	20 to 99 employees	1	1	-	-	-
Cayuga	1		_	_	1	250 employees or more	1	1	-	-	-
0 to 19 employees	1		_	_	1	Niagara	4	-	-	-	4
	- 1	_		_		0 to 19 employees 20 to 99 employees	3	-	- 1	-	3
Chautauqua	2	-	-	-	2			-	-	-	.'
0 to 19 employees	2	- [	-	-	2	Onelda	11	-	-	-	11
Chemung	3	-	-	-	3	0 to 19 employees 20 to 99 employees	9 2	-			9
0 to 19 employees	2	-	-	-	2						-
20 to 99 employees	'	-	-	-	1	Onondaga	7 6	-	- 1	-	,
Columbia	3	-	-	-	3	0 to 19 employees 20 to 99 employees	1		_	-	1
0 to 19 employees	3	-	-	-	3	Ontario	7	_	_	_	7
Cortland	1	-	-	-	1	0 to 19 employees	7	_	_	_	7
0 to 19 employees	1	-	-	-	1						
Delaware	2	-	-	-	2	Orange	7	-	-	-	,
0 to 19 employees	2	-	_	_	2	0 to 19 employees 20 to 99 employees	6 1	-	-	_	1
Dutchess	15				15	Orleans	3	_	_	_	3
			-	-		0 to 19 employees	3		_	_	3
0 to 19 employees 20 to 99 employees	12 2	-	-	_	12 2		_				
100 to 249 employees	1	-	-	-	1	Oswego	4	-	-	-	4
Erle	4	-	-	-	4	0 to 19 employees 20 to 99 employees	2 2	-	_	-	2
0 to 19 employees	3	_	-	_	3	Otsego	1	_	_	_	1
20 to 99 employees	1	-	-	-	1	0 to 19 employees	1	_	_	_ [	1
Essex	3	1	-	-	2						
20 to 99 employees	2	1	_	_	1	Putnam	3	-	-	-	3
100 to 249 employees	1	-	-	-	1	0 to 19 employees	3	-	-	-	3
Franklin	1	-	-	-	1	Rensselaer	3	-	-	-	3
0 to 19 employees	1	-	_	_	1	0 to 19 employees	3	-	-	-	3
Fulton		_	_	_	1	Rockland	5	-	-	-	5
			-	•		0 to 19 employees	2	-	-	-	2
0 to 19 employees	1	-	-	-	1	20 to 99 employees	3	-	-	-	3
Genesee	4	-	-	-	4	St. Lawrence	11	4	-		7
0 to 19 employees	3	-	-	-	3	0 to 19 employees 20 to 99 employees	6	1 3	-	-	5
20 to 99 employees	1	-	-	-	1	100 to 249 employees	i	-	-	-	i
Greene	2	-	-	-	2	Saratoga	6	_	_	_	6
0 to 19 employees	2	-	-	-	2	0 to 19 employees	6	_	_	_	6
Hamilton	1	_	_	_	1		3				3
0 to 19 employees	1				1	Schenectady	1	-	-	•	1
	Ť		_	-		0 to 19 employees	2	-	-	=	2
Herkimer	7	-	-	-	7	Schoharie	2	_	_	_	2
0 to 19 employees 20 to 99 employees	6	-	-	-	6	0 to 19 employees	1		_		1
				-	'	20 to 99 employees	- i	-	-	-	1
Jefferson	12	-	-	-	12	Seneca	1	_	_	-	1
0 to 19 employees	9		_	_	9	0011000					

See footnotes at end of table.

## Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987—Con.

[Data for the crude prtroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment- size class <sup>1</sup>	All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas ex- traction (SIC 13)	Non- metallic minerals mining (SIC 14)	Geographic area and employment- size class <sup>1</sup>	All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas ex- traction (SIC 13)	Non- metallic minerals mining (SIC 14)
New York—Con. Steuben	4	-	-	•	4	New York—Con. Warren	3		-	-	3
0 to 19 employees 20 to 99 employees	3 1	-	-	=	1	0 to 19 employees 100 to 249 employees	2 1	-	<u>-</u> -	-	2
Suffolk	19	_	_	_	19	Washington	8	-	-	-	8
0 to 19 employees	16	_	_	_ [	16	0 to 19 employees 20 to 99 employees	6	-	- 1	-	6
20 to 99 employees	3	-	-	-	3	Wayne	3	_	_	_	2
Sullivan	9	-	-	-	9	0 to 19 employees	3	_	_	_	3
0 to 19 employees 20 to 99 employees	8	-	-	-	8	Westchester	2	_	_	_	2
20 to 99 employees	1	-	-	-	1	0 to 19 employees	2	_	_	_	2
Tompkins	4	-	-	-	4	Wyoming	1	_	_	_	1
0 to 19 employees	2	-	-	-	2	0 to 19 employees	1	_	-	_	1
20 to 99 employees 100 to 249 employees	1	-	-	_	1			_		407	
Makes						Undistributed	211	′	2	197	5
Uister	9	-	-	-	9	0 to 19 employees 20 to 99 employees	188 18	1	2	175   17	5
0 to 19 employees	7	-	-	-	7	100 to 249 employees	1	-	-	1	-
20 to 99 employees	2	-	-	-	2	250 employees or more	4	-	-	4	

Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."



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## **SUMMARY OF FINDINGS**

The total value of shipments and receipts for the 1,382 establishments classified in mineral industries in Pennsylvania was \$4.1 billion in 1987, or 3 percent of the Nation's total. This compares to \$4.6 billion in 1982, when it was 2 percent of the Nation's total. Value added by mining amounted to \$2.6 billion in 1987, and payroll in mining amounted to \$977.6 million. All dollar figures shown are in current dollars for the years specified and have not been

adjusted for changes in price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Pennsylvania was 33.4 thousand in 1987, or 5 percent of the Nation's total. This is a decrease of 30 percent from 1982. The coal mining industry led all other mineral industries in the State, accounting for approximately 67 percent of the State's mineral industries employment.

PENNSYLVANIA - Consolidated Metropolitan Statistical Areas, Primary Metropolitan Statistical Areas,

45° 40° 36 ALLENTOWN-BETHLEHEM PHILADELPHIA NEW JERSEY PHILADELPHIA-NEW YORK WILMINGTON PHILADELPHI **ORTHAMPTON** TRENTON (PART) 75° PIKE THE STATE OF THE S 75° WAYNE MONROE Easton LEHIGH DELAWATED! Scranton CHESTER Allantown DELAWARE SUSQUEHANNA LACKAWANNA CARBON Reading BERKS READING Wilkas-Barre LUZERNE NORTHUMBERLAND WYOMING Hazleton .91 <u>9</u>2 Lancaster O LANCASTER LANCASTER SCHUYLKILL SCRANTON-WILKES-BARRE COLUMBIA 1 Warminster 2 Falls Township 3 Bristol Township 4 Bensalem Township PHILADELPHIA COUNTY BRADFORD SULLIVAN Lebanon 2 Haverford Township LEBANO DELAWARE COUNTY Radnor Township Chester Ridley Township PAUOTNOM BUCKS COUNTY Uppar Darby Springfield 1 Philadalphia YORK YORK HARRISBURG-LEBANON-PERRY CARLISLE York Williamsport WILLIAMSPORT Harrisburg 770 LYCOMING SNYDER UNION 100 Miles 220 CUMBERLAND KEY TIOGA ADAMS MONTGOMERY COUNTY
1 Upper Moraland Township
2 Norristown
3 Abrington Township
4 Upper Merion Township
5 Chaltanham Township
6 Lower Merion Township Carlisle ALAMAK Metropolitan Statistical Areas, Counties, and Selected Places 1 McCandless Township 2 Ross Township 3 Shaler Township 4 Plum ALLEGHENY COUNTY 6 Monroaville
7 West Mifflin
8 Mount Labanon
9 McKaesport
10 Bethel Park Kilometers MIFFLIN 8 CLINTON FRANKLIN CENTRE ALTOONA Pann Hills State Collega POTTER HUNTINGDON MARYLAND 6 NEW YORK SCALE 8 FULTON CAMERON STATE COLLEGE 8 CLEARFIELD ● Altoona BLAIR 40 9 BEDFORD MCKEAN 퓠 6 20 JEFFERSON 62 20 JOHNSTOWN SOMERSET Consolidated metropolitan statistical area (CMSA) PITTSBURGH BEAVER MSA central city of fewar than 25,000 inhabitants 790 FOREST WARREN Primary matropolitan atatlatical area (PMSA) WESTMORELAND CLARION PITTSBURGH Place of 50,000 to 100,000 inhabitants Place of 25,000 to 50,000 inhabitants Place of 100,000 or more Inhabitants Metropolitan statistical area (MSA) Stata capital underlinad VENANGO FAYETTE ALLEGHENY BEAVER Eria BUTLER COUNTY 10 9 CRAWFORD ERIE ERIE WASHINGTON WEST VIRGINIA SHARON 80% MERCER AWRENCE New Castia GREENE BEAVER OHIO 45° 40° 38,



#### Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		ents during ear	All emp	oloyees		on, developm loration work			Cost of supplies used.		
Year	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value purchas  Value machine added by installe mining e n (million (million		Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
1987	1 382 11 610 1 696 1 543	314 (NA) 417 338	33.4 48.0 51.7 41.9	977.6 1 180.2 851.9 441.6	24.7 37.1 42.1 33.6	50.7 70.8 80.7 68.4	705.2 868.2 658.1 337.2	2 561.6 2 936.8 2 166.1 847.2	1 821.6 2 179.0 1 895.8 610.0	4 102.0 4 575.6 3 625.4 1 311.2	281.2 540.2 436.5 146.0

Restated to reflect the 1987 definition of establishments in the crude petroleum and natural gas and mining services industries.

## Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries and industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		1987												1982	
SIC				ishments ng year	All emp	oloyees	Production explo	n, develop oration wo	ment, and rkers		Cost of supplies				
code	Industry group and industry	E¹	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees <sup>2</sup> (1,000)	Value added by mining (million dollars)
	All Industries	E1	1 382	314	33.4	977.6	24.7	50.7	705.2	2 561.6	1 821.6	4 102.0	281.2	48.0	2 936.8
10	Metal mining	E7	14	1	.2	<b>5.</b> 3	.1	.2	3.5	8.0	8.9	14.9	2.0	.4	10.3
103 1031	Lead and zinc ores Lead and zinc ores		1	1	AA AA	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	88 88	(D) (D)
12		E1	646	180	22.5	715.0	18.2	36.3	558.5	1 776.5	1 459.0	3 <b>0</b> 69.3	166.1	3 <b>5.8</b>	2 134.0
122 1221	Bituminous coal and lignite surface	E1	481	142	19.7	654.9	15.9	32.2	511.7	1 628.4	1 332.1	2 808.5	151.9	31.7	1 927.1
1222	mining Bituminous coal underground	E1	372	84	7.9	219.0	6.2	12.9	157.5	635.3	997.2	1 556.1	76.4	(NA)	(NA)
400	mining	_	109	58	11.8	435.9	9.7	19.3	354.2	993.1	334.9	1 252.4	75.5	(NA)	(NA)
123 1231		E1 E1	107 107	26 26	1.9 1.9	41.2 41.2	1.6 1.6	2.9 2.9	32.4 32.4	109.4 109.4	109.0 109.0	206.3 206.3	12.1 12.1	3.4 3.4	171.7 171.7
124 1241		E3 E3	58 58	12 12	.8 .8	18.8 18.8	.6 .6	1.2 1.2	14.4 14.4	38.6 38.6	17.9 17.9	54.5 54.5	2.0 2.0	.7 .7	35.3 35.3
13	Oll and gas extraction	<b>E</b> 3	420	49	4.6	115.4	3 <b>.0</b>	6.7	66.2	422.8	187.3	538.9	71.2	7.2	592.0
131 1311	Crude petroleum and natural gas Crude petroleum and natural gas	E2 E2	199 199	27 27	2.3 2.3	65.3 65.3	1.2 1.2	2.6 2.6	28.3 28.3	313.3 313.3	122.0 122.0	372.6 372.6	62.7 62.7	3.5 3.5	347.7 347.7
138 1381 1382		E4 E3	219 82	22 7	EE .8	(D) 18.0	(D) .7	(D) 1.7	(D) 15.8	(D) 37.6	(D) 23.0	(D) 57.8	(D) 2.9	FF 1.7	(D) 108.0
1389	services	E7 E3	22 115	1 14	AA 1.2	(D) 27.0	(D) .9	(D) 2.1	(D) 19.2	(D) 64.1	(D) 33.2	(D) 92.2	(D) 5.1	AA 1.8	(D) 127.1
14	Nonmetallic minerals, except fuels	E1	3 <b>02</b>	84	6.2	142.0	3.4	7.5	77.1	354.4	166.4	478.9	42.0	4.6	200.4
141 1411	Dimension stone	E1 E1	16 16	3 3	.2	2.9 2.9	:1 :1	.2	2.3 2.3	9.0 9.0	4.2 4.2	12.6 12.6	.6	(NA) (NA)	(NA) (NA)
142	Crushed and broken stone, including riprap		450											` ′	, ,
1422 1429	Crushed and broken limestone Crushed and broken stone, n.e.c	-	150 113 35	59 46 12	3.4 2.7 CC	87.0 70.9 (D)	2.3 1.8 (D)	5.2 4.0 (D)	54.6 42.3 (D)	257.3 195.4 (D)	123.7 102.5 (D)	347.5 270.2 (D)	33.5 27.7 (D)	2.9 2.3 CC	131.0 105.3 (D)
144 1442 1446		E4 E4	99 93 6	14 12 2	2.0 1.8 .2	34.4 30.6 3.8	.8 .7 .1	1.6 1.4 .2	16.8 14.1 2.7	69.4 59.1 10.2	29.4 25.1 4.3	92.4 78.7 13.7	6.3 5.6	1.0 CC AA	57.5 (D) (D)
145	Clay, ceramic, and refractory minerals_	E4	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.9
147 1479	Chemical and fertilizer mineral mining _ Chemical and fertilizer mineral	-	3	2	AA	(D)	-	-	-	-	-	-	-	AA	(D)
4.40	mining, n.e.c.	-	2	2	AA	(D)	-	-	-	-	-	-	-	(NA)	(NA)
148	Nonmetallic minerals services, except fuels	-	7	4	.2	4.4	.1	.2	1.8	10.6	3.7	13.6	.7	.1	3.9
1481	Nonmetallic minerals services, except fuels	-	7	4	.2	4.4	.1	.2	1.8	10.6	3.7	13.6	.7	,1	3.9

Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent; E9—90 percent; E9—90 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 general statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

# Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1987

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

		Production, developm	ment, and exploration kers		
Industry group and industry	Establishments during year (number)	Hours (millions)	Wages (million dollars)	Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
Nonmetallic mineral mines included in manufactures  Dimension stone  Crushed and broken stone, including riprap  Crushed and broken limestone  Clay and related minerals  Clay and related minerals, n.e.c.	24 1 14 14 9 8	(D) (D) .6 .6 .1 (D)	(D) (D) 7.8 7.8 .6 (D)	(D) (D) 16.0 16.0 1.7 (D)	(X) (D) 10 731.9 10 731.9 952.4 (D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

## Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			Producing establishments  Mines only Mines with preparation plants											
					Mines	only		Mir	nes with pre	paration plar	nts			
SIC	Industry group and item	All types of estab- lishments	Total	Total	Under- ground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods	Sepa- rately operated prepara- tion plants	Undistri- buted <sup>1</sup>	Nonpro- ducing estab- lishments
	ALL INDUSTRIES										•			
	Establishments number Employees 1,000 Value added in mining mil dol	1 382 33.4 2 561.6	1 359 33.3 2 565.6	641 10.9 1 041.6	124 4.8 389.2	327 3.8 316.0	190 2.3 336.3	272 13.8 1 262.5	29 6.7 649.6	222 6.0 538.1	21 1.1 74.9	25 .8 72.9	421 7.7 188.6	23 .1 -4.0
10	METAL MINING													
	Establishments number_ Employees1,000_ Value added in mining mil dol_	14 .2 8.0	14 .2 8.0	4 (D) (D)	- -	4 (D) (D)	- -	- -	- -	-	- -	(D)	.5	-
101	IRON ORES													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	5 (D) (D)	5 (D) (D)	(D)	-	4 (D) (D)	-	- -	-	-	-	(D)	-	-
103	LEAD AND ZINC ORES								i					
	Establishments number Employees 1,000 Value added in mil dol	1 (D) (D)	1 (D) (D)	-	-	- - -	- -	- -	-	-	-	(D)	-	-
106	FERROALLOY ORES, EXCEPT VANADIUM													
	Establishments number Employees 1,000 Value added in mining mil dol	· (Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	_ _
108	METAL MINING SERVICES													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	(Z)	(Z)		-	-	-	-	-	-	-	-	5 (Z)	-
109	MISCELLANEOUS METAL ORES													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	. (Z	1 (Z)		=								(Z)	

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			Producing establishments  Mines only  Mines with preparation plants											
	-				Mine	s only		Mi	nes with pre	paration plai	nts			
SIC	Industry group and item	All types of estab- lishments	Total	Total	Under- ground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Under- ground mines	Open pit mlnes	Combina- tion and other methods	Sepa- rately operated prepara- tion plants	Undistri- buted <sup>1</sup>	Nonpro- ducing estab- lishments
12	COAL MINING													
	Establishments number_ Employees 1,000_ Value added in mining mil dol	646 22.5 1 776.5	634 22.4 1 780.1	426 8.6 713.2	124 4.8 389.2	296 (D) (D)	6 (D) (D)	91 10.4 965.1	25 (D) (D)	50 2.8 259.8	16 (D) (D)	21 .7 63.2	96 2.7 38.6	12 .1 -3.6
122	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	481 19.7 1 628.4	472 (D) (D)	351 8.0 670.8	60 4.4 368.5	287 (D) (D)	(D)	78 9.4 907.7	23 (D) (D)	228.0	9 (D) (D)	11 (D) (D)	34 (D) -	9 (D) (D)
123	ANTHRACITE MINING													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	107 1.9 109.4	104 (D) (D)	75 .7 42.3	64 .4 20.7	9 (D) (D)	2 (D) (D)	15 1.0 57.4	2 (D) (D)	6 .6 31.8	7 (D) (D)	10 (D) (D)	(D)	3 (D) (D)
124	COAL MINING SERVICES													
	Establishments number_ Employees 1,000 Value added in mining mil dol	58 .8 38.6	58 .8 38.6	- -	-	- -	- -	- -	- -	-	- -	- -	58 .8 38.6	-
13	OIL AND GAS EXTRACTION													
	Establishments number_ Employees 1,000_ Value added in mining mil dol	420 4.6 422.8	414 4.6 422.9	183 2.0 313.4	:	-	183 2.0 313.4	<u>-</u> -	-	-	- - -	1 (D) (D)	230 (D) (D)	6 (Z) (Z)
131	CRUDE PETROLEUM AND NATURAL GAS													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	199 2.3 313.3	193 2.3 313.4	183 2.0 313.4	- -	-	183 2.0 313.4	- -	<u>-</u> -	-	<u>-</u> : -	- - -	10 .3 -	6 (Z) (Z)
132	NATURAL GAS LIQUIDS													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	2 (D) (D)	(D)	<u>-</u> -	- -	- -	-	- -	<u>-</u> -	- -	- -	1 (D) (D)	1 (D) -	:
138	OIL AND GAS FIELD SERVICES													
	Establishments number Employees 1,000 Value added in mil dol	219 (D) (D)	219 (D) (D)	-	=	-	-	- - -	- -	-	-	-	219 (D) (D)	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	302 6.2 354.4	297 6.1 354.8	28 (D) (D)	=	27 .2 14.8	1 (D) (D)	181 3.4 297.5	4 (D) (D)	172 3.2 278.3	5 (D) (D)	1 (D) (D)	87 (D) (D)	5 (Z) 4
141	DIMENSION STONE													
	Establishments number_ Employees 1,000 Value added in mll dol	16 .2 9.0	16 .2 9.0	16 .2 9.0	Ξ.	16 .2 9.0	- - -	-	- -	-	-	-	-	-

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

			Producing establishments  Mines only  Mines with preparation plants												
					Mines	only		Mi	nes with pre	paration plai	nts				
SIC code	Industry group and item	All types of estab- lishments	Total	Total	Under- ground mines	Open pit mlnes	Combination methods, well operations, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods	Sepa- rately operated prepara- tion plants	Undistri- buted <sup>1</sup>	Nonpro- ducing estab- lishments	
14	NONMETALLIC MINERALS, EXCEPT FUELS —Con.														
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP														
	Establishments number_ Employees 1,000_ Value added in mil dol	150 3.4 257.3	147 (D) (D)	3 (D) (D)	- - -	2 (D) (D)	1 (D) (D)	131 2.9 252.3	(D)	127 (D) (D)	- -	1 (D) (D)	12 (D)	3 (D) (D)	
144	SAND AND GRAVEL			:											
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	99 2.0 69.4	97 (D) (D)	2 (D) (D)	:	2 (D) (D)	- -	33 (D) (D)	- -	30 (D) (D)	3 (D) (D)	-	62 (D) (D)	(D)	
145	CLAY, CERAMIC, AND REFRACTORY MINERALS														
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	10 (D) (D)	10 (D) (D)	7 (D) (D)	-	7 (D) (D)	-	1 (D) (D)	- -	(D)	<u>-</u> -	e - -	(D)	<u> </u>	
147	CHEMICAL AND FERTILIZER MINERAL MINING														
	Establishments number Employees 1,000 Value added in mining mil dol	3 (D) -	3 (D) -	- -	-	1 1 1	- -	-	-	-	- -	- -	3 (D) -	- -	
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS														
	Establishments number_ Employees 1,000_ Value added in mil dol	7 .2 10.6	7 .2 10.6	-	-	-	- -	-	-	-	- -	-	7 .2 10.6	Ξ	
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS														
	Establishments number_ Employees 1,000_ Value added in mining mil dol_	17 (D) (D)	17 (D) (D)	 - -	-	-	- -	16 (D) (D)	- - -	14 (D) (D)	2 (D) (D)	-	1 (D) -	-	

Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

#### Table 4. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	Item	1987
Establishments during yearnumber	1 382	Cost of supplies mil dol	1 821.6
With 0 to 19 employeesdo	1 068	Supplies used, minerals received, and purchased machinery	
With 20 to 99 employeesdo	244	installeddo	1 407.3
With 100 employees or moredo	70	Resales do   Purchased fuels consumed do	40.6 <b>9</b> 2.4
All employees:		Purchased electric energy:	92.4
Average for year1,000	33.4	Quantity mil kWh_	1 883.6
Average for year	977.6	Cost mil dol	94.7
Production, development, and exploration workers:		Electric energy generated less sold mil kWh	2.1
Average for year1,000	24.7	Contract work mil dol	186.6
Marchdo	24.7	Cost of purchased communication services do	3.6
May do	24.7	Oust of purchased communication services	5.0
Augustdo	24.5	Value of shipments and receipts	4 102.0
Novemberdo	24.4	Value of resales do	42.3
Hours millions	50.7	Capital expenditures during year (except land and mineral rights) do	281.2
January to Marchdo	12.6	New capital expenditures during yeardo	173.3
April to Junedo	13.0	Buildings and other structures, except landdo	13.6
July to Septemberdo_ October to Decemberdo_	12.5 12.6	Machinery and equipmentdo	159.8
			45.5
Wages mil dol	705.2	Used capital expenditures during yeardo Buildings and other structures, except landdo	1.8
Supplemental labor costs not included in payrolldo	360.4	Machinery and equipmentdo	43.7
Legally required expenditures, including Social Security	000	2 11	
contributionsdo	173.2	Mineral exploration and development1do	62.4
Payments for voluntary programs do	187.1	Rental payments during year do	59.1
Value added by miningdo	2 561.6	Buildings and other structures, except land do	18.5
		Machinery and equipmentdo	40.6
Inventories, beginning of 1987do	263.4		
Inventories, end of 1987do	275.9	Expensed mineral exploration, development, land, and rights <sup>1 2</sup> do	54.7

#### Table 5. Industry Group Statistics for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

				nents during ear	All emp	loyees		n, developm oration work			Cost of supplies used.		
SIC	Geographic area and industry group	E¹	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
	Pennsylvania	E1	1 382	314	33.4	977.6	24.7	50.7	705.2	2 561.6	1 821.6	4 102.0	281.2
	Allegheny County	<b>E</b> 5	42	10	2.5	69.8	.6	1.1	17.1	45.5	26.6	68.2	3.8
12 122	Bituminous coal and lignite mining	E6 E6	<b>27</b> 27	6 6	1.4 1.4	55.1 55.1	.5 .5	.9 .9	15.4 15.4	40.0 40.0	23.6 23.6	60.3 60.3	3.3 3.3
14 144	Nonmetallic minerals, except fuels Sand and gravel	E2 E1	13 9	4 3	<b>EE</b> 1.0	(D) 12.7	(D) (Z)	(D) .1	(D) .9	(D) 2.4	<b>(D)</b> 1.0	(D) 3.1	(D) .3
	Armstrong County	-	48	12	1.5	45.7	1.3	2.6	39.7	113.0	207.4	310.5	9.9
12 122	Coal mining	-	34 34	11 11	1.3 1.3	42.9 42.9	1.2 1.2	2.4 2.4	3 <b>8.</b> 5 38.5	104.3 104.3	<b>200.4</b> 200.4	298.0 298.0	<b>6.7</b> 6.7
14	Nonmetallic minerals, except fuels	<b>E</b> 3	13	. 1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bedford County	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including riprap _	-	2 2	2 2	AA AA	( <b>D</b> ) (D)	(D)	(D) (D)	( <b>D</b> ) (D)	(D) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)
	Berks County	E2	13	5	.2	5.1	.2	.4	3.8	17.8	9.2	24.4	2.6
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including riprap _	<b>E2</b> E2	13 12	5 5	.2 AA	5.1 (D)	.2 (D)	.4 (D)	3. <b>8</b> (D)	<b>17.8</b> (D)	9.2 (D)	<b>24.4</b> (D)	2.6 (D)
	Blair County	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetaillc minerals, except fuels Crushed and broken stone, including riprap _	-	5 5	<b>2</b> 2	AA AA	( <b>O</b> )	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	(D) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)
	Bucks County	-	19	6	.4	10.7	.2	.5	5.6	35.6	17.8	48.3	5.1
14 142 144	Nonmetallic minerals, except fuels Crushed and broken stone, including nprap _ Sand and gravel	- E2	18 10 7	6 3 3	<b>BB</b> .2 AA	( <b>D</b> ) 7.2 (D)	(D) .1 (D)	( <b>D</b> ) .3 (D)	( <b>D</b> ) 3.4 (D)	( <b>D</b> ) 25.0 (D)	<b>(D</b> ) 12.8 (D)	(D) 33.9 (D)	( <b>D</b> ) 4.0 (D)
	Butler County	E1	20	8	.6	17.4	.5	1.2	15.9	39.6	31.2	65.9	4.8
12 122	Coal mining Bituminous coal and lignite mining	<b>E1</b> E1	<b>12</b> 12	4 4	.4 .4	14.2 14.2	. <b>4</b> .4	.9 .9	13.1 13.1	<b>28.1</b> 28.1	<b>25</b> .8 25.8	50.3 50.3	3.6 3.6
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including riprap _	E2 -	8	3	.2 AA	3.3 (D)	.1 (D)	.3 (D)	2.8 (D)	<b>11.5</b> (D)	5.4 (D)	15.7 (D)	<b>1.2</b> (D)
	Cambria County		24	9	2.3	80.1	2.1	4.4	73.5	174.2	159.0	318.1	15.1
12 122	Coal mining Bituminous coal and lignite mining	:	<b>24</b> 24	9	<b>2.</b> 3 2.3	<b>80.1</b> 80.1	<b>2.1</b> 2.1	4.4 4.4	<b>73.</b> 5 73.5	<b>174.2</b> 174.2	159.0 159.0	318.1 318.1	<b>15.1</b> 15.1

<sup>&</sup>lt;sup>1</sup>Excludes data for mining services industries and natural gas liquids industries where data were not collected. 
<sup>2</sup>Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

### Table 5. Industry Group Statistics for Counties: 1987—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

				nents during ear	All emp	loyees	Productio expl	n, developm oration work	ent, and ers		Cost of supplies used,		
SIC	Geographic area and industry group	E¹	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1, <b>0</b> 00)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
10 103	Pennsylvania—Con. Carbon County  Metal mining	<b>E6 E9 E9</b>	3 1 1	2 1	AA AA	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)
	Centre County	E1	21	8	.7	22.0	.7	1.5	19.9	74.9	42.0	102.3	14.5
<b>12</b> 122	Coal miningBituminous coal and lignite mining	E1 E1	16 16	8 8	. <b>7</b> .7	21.1 21.1	.6 .6	1.4 1.4	19.3 19.3	<b>72.0</b> 72.0	<b>40.5</b> 40.5	98.3 98.3	14.3 14.3
14	Chester County Nonmetallic minerals, except fuels	-	6	4	.2 AA	5.3 (D)	.1 (D)	.3 (D)	3.5 (D)	19.9 (D)	6.7 (D)	25.1 (D)	1.4 (D)
	Clarion County	E4	15	4	.5	14.0	.3	.7	9.5	49.3	29.4	74.1	4.6
12 122	Coal miningBituminous coal and lignite mining	<b>E4</b> E4	15 15	4 4	.5 .5	14.0 14.0	.3 .3	<b>.7</b> .7	9.5 9.5	49.3 49.3	29.4 29.4	<b>74.1</b> 74.1	4.6 4.6
	Clearfield County	E3	67	18	1.7	36.5	1.5	3.0	32.0	110.3	106.3	202.4	14.2
12 122	Coal mining Bituminous coal and lignite mining	E3 E3	66 66	18 18	EE	(D) (D)	( <b>D</b> ) (D)	( <b>D</b> )	( <b>D</b> ) (D)	( <b>D</b> )	(D) (D)	(D) (D)	(D) (D)
	Cumberland County	E4	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Delaware County Nonmetallic minerals, except fuels	-	6 5 2	2 2 2	AA AA	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D) (D)	(D) (D) (D)	(D) (D) (D)
142	Crushed and broken stone, including riprap _  Erle County	E3	15	2	.1	2.8	.1	.2	1.7	4.4	4.9	8.8	.5
14	Nonmetallic minerals, except fuels	E3	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Fayette County	E3	35	6	.4	10.5	.3	.7	8.5	29.8	° 37.7	64.9	2.6
<b>12</b> 122	Coal mining	E3 E3	30 30	3 3	.3 .3	8.7 8.7	<b>.2</b> .2	.5 .5	<b>7.0</b> 7.0	26.5 26.5	34.5 34.5	58.9 58.9	<b>2.2</b> 2.2
	Fulton County	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including nprap _	-	3 2	1	AA AA	(D) (D)	( <b>D</b> ) (D)	(D)	( <b>D</b> ) (D)	<b>(D)</b> (D)	( <b>D</b> ) (D)	(D) (D)	( <b>D</b> ) (D)
12	Greene County	-	24 22	12 11	2.5 EE	100.0 (D)	2.0 (D)	4.1 (D)	79.7 (D)	390.7 (D)	160.2 (D)	520.0 (D)	30.8
122	Coal mining Bituminous coal and lignite mining	-	22	ii	ĒĒ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	( <b>D</b> ) (D)
14	Huntingdon County Nonmetallic minerals, except fuels	-	3	1	AA AA	(D)	(D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D)	(D)
144	Sand and gravel	-	1	1	AA	( <b>D</b> ) (D)	(D)	(D)	(D)	(D)	(D)	(D) (D)	(D) (D)
12 122	Indiana County  Coal mining  Bituminous coal and lignite mining	-	59 59 59	25 25 25	3.9 3.9 3.9	125.3 125.3 125.3	3.1 3.1 3.1	5.8 5.8 5.8	99.7 99.7 99.7	257.5 257.5 257.5	212.9 212.9 212.9	451.6 451.6 451.6	18.8 18.8 18.8
	Jefferson County	E1	36	7	.5	11.7	.4	1.0	9.9	49.2	(D)	89.4	(D)
<b>12</b> 122	Coal mining	E1 E1	35 35	<b>7</b> 7	cc CC	( <b>D</b> )	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)
	Lackawanna County	E5	17	3	.3	9.3	.1	.1	1.6	4.0	3.1	6.6	.6
14 147	Nonmetallic minerals, except fuels Chemical and fertilizer mineral mining	E4 -	9 2	<b>3</b> 2	. <b>3</b> AA	8.9 (D)	.1	.1 -	1.2	2.9 -	2.4	4.8	.5 -
4.4	Lancaster County	-	15	9	.5	13.9	.3	.6	6.0	28.2	17.9	38.8	7.2
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including riprap _	-	14 11	8 8	8 <b>8</b> 88	( <b>D</b> )	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> )	( <b>D</b> )	(D) (D)	(D) (D)	( <b>D</b> ) (D)
	Lawrence County	E3	14	1	.1	3.0	.1	.3	2.4	8.8	5.7	13.7	.7
14	Lehigh County Nonmetallic minerals, except fuels	-	7 5	3	.1	2.0	.1	.2	1.4 (D)	7.9	(D)	10.4	(D) (D)
	Luzerne County	E1	23	8	.6	(D) 12.0	(D) .5	(D) .9	(D) 9.7	(D) 35.6	(D) 19.7	(D) 51.8	3.4
12 123	Coal mining	E1 E1	19 19	8 8	cc CC	(D) (D)	(D) (D)	(D)	(D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)
	Lycoming County		8	3	.1	2.6	.1	.2	2.1	9.9	(D)	12.8	(D)
	Mercer County	E1	10	3	ВВ	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12 122	Coal mining	E1 E1	4 4	2 2	BB BB	(D)	(D)	(D)	(D)	(D) (D)	( <b>D</b> )	(D) (D)	( <b>D</b> )
122	See feetnetes at and of table		4	21	551	(U) 1	(D) I	(D) I	(D) I	(D) 1	(D) I	(D) I	(D)

#### Table 5. Industry Group Statistics for Counties: 1987—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

	SIC			ments during ear	All emp	loyees		n, developm oration work			Cost of supplies		
SIC code	Geographic area and industry group	E1	Total (number)	With 20 employees or more (number)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
	Pennsylvania—Con. Montgomery County	-	13	6	.4	11.9	.2	.6	7.2	34.5	9.6	41.0	3.1
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including nprap _	-	13 7	6 4	.4 88	11.9 (D)	.2 (D)	.6 (D)	<b>7.2</b> (D)	34.5 (D)	9.6 (D)	<b>41.</b> 0 (D)	3.1 (D)
	Northampton County	-	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including nprap _	-	6 4	4 4	AA AA	( <b>D</b> ) (D)	( <b>D</b> ) (D)	(D) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	(D) (D)
	Northumberland County	E1	20	1.	.2	2.7	.1	.2	<b>2.</b> 3	6.0	7.9	12.6	1.3
12 123	Coal mining	<b>E1</b> E1	13 13	1	.1 .1	2.2 2.2	.1 .1	<b>.2</b> .2	1.9 1.9	<b>4.0</b> 4.0	( <b>D</b> ) (D)	<b>10.1</b> 10.1	( <b>D</b> ) (D)
	Philadelphia County	E4	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Schuylkill County	E1	68	17	1.3	26.6	1.0	1.8	20.4	66.6	81.9	140.8	7.7
12 123	Coal mining	E1 E1	63 63	15 15	EE EE	( <b>D</b> )	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)
	Somerset County	<b>E</b> 3	59	13	.9	23.5	.8	1.6	21.1	74.3	5 <b>6.</b> 9	121.5	9.6
12 122	Coal mining Bituminous coal and lignite mining	<b>E</b> 3	<b>55</b> 55	11 11	CC CC	( <b>D</b> )	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> )	( <b>D</b> ) (D)
	Washington County	E1	34	13	2.4	97.8	1.9	4.1	76.2	170.1	78.2	233.0	15.3
12 122	Coal mining	E1 E1	31 31	13 13	EE EE	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> )	( <b>D</b> ) (D)	( <b>D</b> ) (D)
	Westmoreland County	E1	34	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12 122	Coal mining Bituminous coal and lignite mining	-	27 27	2 2	AA AA	( <b>D</b> )	( <b>D</b> ) (D)	( <b>D</b> ) (D)	(D) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)	( <b>D</b> ) (D)
14	Nonmetallic minerals, except fuels	E7	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	York County	E2	8	3	.2	5.8	.2	.3	4.0	14.5	10.0	22.5	1.9
14 142	Nonmetallic minerals, except fuels Crushed and broken stone, including nprap _	E2 E2	8 7	3 3	.2 AA	5.8 (D)	.2 (D)	.3 (D)	<b>4.0</b> (D)	14.5 (D)	10.0 (D)	<b>22.</b> 5 (D)	1.9 (D)

¹Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more. ²Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA-100 to 249 employees; BB-250 to 499 employees; CC-500 to 999 employees; EE-1,000 to 2,499 employees; FF-2,500 employees or more.

#### Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude prtroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment- size class <sup>1</sup>	All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non- metallic minerals mining (SIC 14)	Geographic area and employment- size class¹	All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas ex- traction (SIC 13)	Non- metallic minerals mining (SIC 14)
Pennsylvania	1 382	14	646	420	302	Pennsylvania Con.					
0 to 4 employees	549	7	216	253	73	Allegheny	42	2	27	-	13
5 to 9 employees	288	4	152	70	62	0 to 19 employees	32	2	21	_	9
10 to 19 employees 20 to 49 employees	231 1 <b>6</b> 7	2	98 81	48 26	83 60	20 to 99 employees 100 to 249 employees	5	_	2	_	3
50 to 99 employees	77	_	47	12	18	100 to 249 employees	3		3	-	-
100 to 249 employees	44	1	27	11	5	250 employees or more	2	-	1	-	1
250 to 499 employees	21	-	21	-	-						
500 to 999 employees	5	-	4	-	1	Armstrong	48	1	34	-	13
Adams	3	_	` _	_	3	0 to 19 employees	36	1	23		12
	3	_	_		,	20 to 99 employees	7		6		1
0 to 19 employees	2	-	-	_	2	100 to 249 employees	3	-	3	_	_
20 to 99 employees	1	-	-	_	1	250 employees or more	2	-	2	_	_

# Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987—Con.

[Data for the crude prtroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols see introductory text. For explanation of terms, see appendixes!

and symbols, see introductory text.  Geographic area and employment- size class <sup>1</sup>	All mineral indus-	Metal mining	Coal mining	Oil and gas ex-	Non- metallic minerals	Geographic area and employment- size class¹	All mineral indus-	Metal mining	Coal mining	Oil and gas ex-	Non- metallic minerals mining
	tries	(SIC 10)	(SIC 12)	(SIC 13)	mining (SIC 14)		tries	(SIC 10)	(SIC 12)	(SIC 13)	(SIC 14)
Pennsylvania—Con. Beaver	5	_	2	_	3	Pennsylvania—Con. Erie	15	-	1	_	14
0 to 19 employees20 to 99 employees	4	_	2		2	0 to 19 employees 20 to 99 employees	13 2	_	1	-	12 2
Bedford	2	_	_	_	2	Fayette	35	1	30	_	4
20 to 99 employees	2	-	-	-	2	0 to 19 employees 20 to 99 employees	29	1	27	- }	1
Berks	13	-	-	-	13		6	-	3	-	3
0 to 19 employees 20 to 99 employees	8 5	-	_	_	8 5	0 to 19 employees	1	-	-	_	1
Blair	5	-	-	-	5	Franklin	6	-	1	_	5
0 to 19 employees 20 to 99 employees	3	-	-	-	3	0 to 19 employees 20 to 99 employees	5 1	-	1	-	4
100 to 249 employees	i	-	-	-	i	Fulton	4	_	1	_	3
Bradford	2	-	-	-	2	0 to 19 employees	3	- :	1	-	2
0 to 19 employees	2	-	-	-	2	100 to 249 employees	1	-	-	_	1
0 to 19 employees	19	_	1	-	18 12	Greene	24 12	_	22	1	1
20 to 99 employees	6	-	-	-	6	20 to 99 employees 100 to 249 employees	12 5 1	-	4		1
Butler	20	-	12	-	8	250 employees or more	6	-	6	-	-
0 to 19 employees 20 to 99 employees 100 to 249 employees	12 7	-	8	-	4 4	Huntingdon	3 2	-	-	-	3
Cambria	1 24	_	24	_	-	0 to 19 employees 100 to 249 employees	1	=	-	-	1
0 to 19 employees	15	-	15	_	_	Indiana	59	-	59	-	-
20 to 99 employees 100 to 249 employees	4 3	_	4 3	-	_	0 to 19 employees 20 to 99 employees	34 11	-	34 11	-	_
250 employees or more	2	-	2	-	-	100 to 249 employees 250 employees or more	8 6	-	° 8		Ξ
0 to 19 employees	3	1	1	_	1	Jefferson	36	-	35	-	1
20 to 99 employees100 to 249 employees	<u>i</u>	-	1	-	-	0 to 19 employees 20 to 99 employees	29 7	-	28	- 1	1
Centre	21	_	16	_	5	Juniata	1	_		_	1
0 to 19 employees	13	-	8	-	5	0 to 19 employees	1	_	_	_	1
20 to 99 employees	6	-	6	_	=	Lackawanna	17	_	8	_	9
250 employees or more	1 6	_	1 2	-	4	0 to 19 employees	14	-	8	-	6
0 to 19 employees	2	_	1	-	1	20 to 99 employees	2 1	-	_	-	1
20 to 99 employees	4	-	1	-	3	Lancaster	15	-	1	-	14
0 to 19 employees	15	-	15 11	-	-	0 to 19 employees 20 to 99 employees	6	-	-	-	6
20 to 99 employees100 to 249 employees	3	Ξ	3	-	=	Lawrence	14	-	2		12
Clearfield	67	_	66	_	1	0 to 19 employees	13	-	1	-	12
0 to 19 employees	49	-	48	-	1	20 to 99 employees	1	-	1	-	-
20 to 99 employees	15 2 1	-	15	-	=	Lebanon	1	-	-	-	1
250 employees or more	'	-	1	-	1	0 to 19 employees	1	-	-	-	1
0 to 19 employees	' <sub>1</sub>	-	-	_	1	Lehigh	7	1	1	-	5
Columbia	2	_	-	-	2	0 to 19 employees 20 to 99 employees	4 3	1 -	1 -	-	2
0 to 19 employees	2	-	-	-	2	Luzerne	23	-	19	-	4
Crawford	1	-	-	-	1	0 to 19 employees 20 to 99 employees	15 7	-	11 7		4
0 to 19 employees	1	-	-	-	1	100 to 249 employees	i	-	i	-	-
Cumberland	6	-	1	-	5	Lycoming	8	-	2	-	6
0 to 19 employees 20 to 99 employees	4 2	_	- 1	-	4	0 to 19 employees 20 to 99 employees	5 3	_	1	_	4 2
Dauphin	4	-	2	-	2	McKean	3	_	-	1	2
0 to 19 employees	3	-	2	-	1	0 to 19 employees	3	-	-	1	2
20 to 99 employees	1	-	-	-	1	Mercer	10	-	4	-	6
O to 19 employees	6	-	-	1	5 3	0 to 19 employees 20 to 99 employees	7 2	-	2	-	5
20 to 99 employees	2	_	=	-	2	250 employees or more	1	=	1	=	-
Elk	4	- }	4	-	-	Monroe	9	-	-	-	9
0 to 19 employees20 to 99 employees	3	-	3	-	-	0 to 19 employees 20 to 99 employees	8	-	-	-	8

## Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987—Con.

[Data for the crude prtroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

							r				
Geographic area and employment- size class <sup>1</sup>	All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas ex- traction (SIC 13)	Non- metallic minerals mining (SIC 14)	Geographic area and employment- size class <sup>1</sup>	All mineral indus- tries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas ex- traction (SIC 13)	Non- metallic minerals mining (SIC 14)
Pennsylvania – Con. Montgomery	13	-	-	-	13	Pennsylvania — Con. Susquehanna	10	•	-	-	10
0 to 19 employees	7	-	- 1	-	7	0 to 19 employees	9	-	-	-	9
20 to 99 employees 100 to 249 employees	5 1	_		_	5	20 to 99 employees	1	-	-	-	1
100 to 243 employees		_	_	_		Tioga	3	-	2	-	1
Montour	2	-	1	-	1	0 to 19 employees	2	-	1	-	1
0 to 19 employees	2	_	1	_	1	20 to 99 employees	1	-	1	-	-
Northampton	7	1				Union	1	-	-	-	1
·		·	-	-	•	0 to 19 employees	1	_	-	-	1
0 to 19 employees 20 to 99 employees	3 4	1	_ [	_	2	Venango	5		2		,
	7	_		_	-		-	-	2	-	3
Northumberland	20	-	13	-	7	0 to 19 employees 20 to 99 employees	4	_	1 1	-	3
0 to 19 employees	19	-	12	-	7						
20 to 99 employees	1	-	1	-	-	Warren	4	-	-	-	4
Perry	1	_	_	_	1	0 to 19 employees	4	-	-	-	4
						Washington	34	1	31	-	2
0 to 19 employees	1	-	-	-	1	0 to 19 employees	21	1	18	_	2
Philadelphia	6	1	1	-	4	20 to 99 employees	8	-	8	-	
0 to 10 ample and	_				4	100 to 249 employees 250 employees or more	1 4	_	1 4	_	_
0 to 19 employees 20 to 99 employees	1		1	_	4				· ·		
						Wayne	5	-	-	-	5
Pike	1	-	-	-	1	0 to 19 employees	5	-	-	-	5
0 to 19 employees	1	-	-	-	1	Westmoreland	34	-	27	-	7
					_	0 to 19 employees	30	_	25	_	5
Schuyikiii	68	-	63	-	5	20 to 99 employees	4	-	2	-	2
0 to 19 employees	51	-	48	-	3	Wyoming	3	-	_	_	3
20 to 99 employees 250 employees or more	16	_	14		2	0 to 19 employees	3	_	_	_	3
200 0			•								·
Snyder	1	-	-	-	1	York	8	-	-	-	8
0 to 19 employees	1	_	_	_	1	0 to 19 employees 20 to 99 employees	5	-	-	-	5
						20 to 99 employees	3	-	-	-	3
Somerset	59	-	55	-	4	Undistributed	487	5	5 <b>8</b>	417	7
0 to 19 employees	46	_	44	_	2	0 to 19 employees	422	5	46	368	3
20 to 99 employees	12	-	10	-	2	20 to 99 employees	53	_	11	<b>3</b> 8	4
100 to 249 employees	1	-	1	-	-	100 to 249 employees	12	-	1	11	

<sup>1</sup>Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."



# APPENDIX A. Explanation of Terms

**Employment and related items**—The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boarding houses, bunk houses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers-This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), record keeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included. as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees—This item covers nonproduction employees of the establishment including those

engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees—This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year—The 1987 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll—This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1987. Respondents were told that in reporting they could follow the definition of payroll used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group

insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to the proprietor or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production and development work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours—This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners are excluded.

**Supplemental labor costs—**This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions—This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs—Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining—This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed, purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining

products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.—Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1987 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts— The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges. Shipments includes all products physically shipped from the establishment during 1987, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1987. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the

estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products.

Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures—This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1987 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures includes work done on contract, as well as by the mine forces. Expenditures for machinery and equipment includes those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments—This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

For 1987, a clarification was made to the instructions for rental payments to indicate that the equipment should be reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor should be reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease", the original cost or market value of the equipment or building was to be reported as a value of fixed assets and not as rental payments.

Current account expenditures—This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories—This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning in the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method. The inventory figures for 1987 and 1982, therefore, will not be comparable to prior census data because of the change in reporting instructions.



# APPENDIX B. Geographic Divisions and States

#### **NEW ENGLAND STATES**

Connecticut Maine Massachusetts New Hampshire

Rhode Island

Vermont

Atlantic Offshore

#### MIDDLE ATLANTIC STATES

New Jersey New York Pennsylvania

#### **EAST NORTH CENTRAL STATES**

Illinois Indiana Michigan Ohio Wisconsin

#### **WEST NORTH CENTRAL STATES**

Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota

#### **SOUTH ATLANTIC STATES**

Delaware District of Columbia Florida Georgia

#### SOUTH ATLANTIC STATES—Con.

Maryland North Carolina South Carolina Virginia West Virginia

#### **EAST SOUTH CENTRAL STATES**

Alabama Kentucky Mississippi Tennessee

#### **WEST SOUTH CENTRAL STATES**

Arkansas Louisiana Oklahoma Texas Northern Gulf of Mexico Offshore

#### **MOUNTAIN STATES**

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

#### **PACIFIC STATES**

Alaska
California
Hawaii
Oregon
Washington
Pacific Offshore



## **PUBLICATION PROGRAM**

#### 1987 CENSUS OF MINERAL INDUSTRIES

Publications of the 1987 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.

#### **Preliminary Reports**

#### Industry series—12 reports (MIC87-I-10A(P) to -14E(P))

Preliminary data from the 1987 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the U.S. and States are released in one report.

#### **Final Reports**

#### Industry series—12 reports (MIC87-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased, and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization and depletion; payrolls; hours worked; cost of purchased machinery; value added by mining; mineral development and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

#### Geographic area series—9 reports (MIC87-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States for two- and three-digit industry groups by type of operation and by county. Also, data are shown for value of shipments, value added by mining, employment, payroll, hours worked, capital expenditures, cost of supplies, etc., purchased machinery installed, and number of mining establishments, with comparative 1982 data on employment and value added by mining.

#### Subject series—2 reports (MIC87-S-1 to -2)

One of these reports is a general National-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

#### Reference series—1 report (MC87-R-1)

The Numerical List of Manufactured and Mineral Products includes a description of the principal products and services published in the 1987 Censuses of Manufactures and Mineral Industries.

#### **MICROFICHE**

Every final published report in the 1987 Census of Mineral Industries will be available on microfiche.

## PUBLIC-USE COMPUTER TAPES AND COMPACT DISCS

Data from the final industry series, and geographic area series will be available on public-use computer tapes and compact discs-read only memory (CD-ROM). These tapes will provide the same information found in the final reports. Computerized data products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, DC 20233.

#### OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, manufactures, transportation, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1987 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.





